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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/814,398	03/31/2004	Alex Levin	42P12980DC	5375	
****	7590 06/26/2007	EXAMINER			
BLAKELY SOKOLOFF TAYLOR & ZAFMAN 1279 OAKMEAD PARKWAY SUNNYVALE, CA 94085-4040			SIEK, VUTHE		
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			2825		
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			06/26/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Application No. Applicant(s)									
Examiner		Application No.	Applicant(s)						
Vultes Siek 2825		10/814,398	LEVIN ET AL.						
Preiod for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 2 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Bederican's of time may be evaluated under the provision of 37 CFR 1.136(i), in or event, however, may a reply be limely filled in the provision of 37 CFR 1.136(i), in or event, however, may a reply be limely filled in the communication of 37 CFR 1.136(i), in or event, however, may a reply be limely filled in the communication of 37 CFR 1.136(i), in or event, however, may a reply be limely filled in the communication of 37 CFR 1.136(i), in or event, however, may a reply be limely filled in the communication of 37 CFR 1.136(i). 1 NO cerebro for reply is specified above, the maximum statutory preford will apply and will explicit St. (8) MONTH's from the malling date of this communication. Period by the second statement of the communication, and the communication of the c	Office Action Summary	Examiner	Art Unit						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of tense rays be available under the provisions of 37 CFR 1.38(a). In no event, however, may a rays be tensely filled. - Exhaustor of tense rays be available under the provisions of 37 CFR 1.38(a). In no event, however, may a rays be tensely filled. - Exhaustor or tensely explored advocable, the maximum statutory pariow thing pays and well explicit (\$\frac{1}{2}\$ MONTHS (and the mailing date of this communication.) - Falsave to reply within the set of extended period for reply will. by attailet, cause the application to become ARABICONED (38 U.S. C. § 133). Any trays produced by the Office defined with the three morning date of this communication, even if timely filled, may reduce any extense parent term adjustment. Set 97 CFR 1.79(b): - Status 1) □ Responsive to communication(s) filled on 10 April 2.29T. 2a) □ This action is FINAL. 2b) □ This action is non-dificult for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) □ Claim(s) 1.20 is/are pending in the application. 4a) Of the above claim(s)		Vuthe Siek	2825						
WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be analogical under the provision of 37 CPR 1.356(s). In no event, however, may a reply be timely filed after \$X.69 MONTHS from the making date of this communication. Fallows proby with the set or contended braind crew with paying and will apply and will proper \$X.69 MONTHS from the migral gate of this communication. Fallows proby with the set or contended braind crew will, by statute, cause the application to become ARANDHOEI (38 U. S. C. § 130). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned gates them adjustment. Set 7 CPR 1.704(s). Status 1) □ Responsive to communication(s) filed on 10 April 1997. 2a) □ This action is FINAL. 2b) □ This action is not. 2b) □ This action is Final. 2c) □ This action is Final. 2b) □ Claim (s) 1-20 is/are pending in the application. 4i) □ Claim(s) 1-20 is/are pending in the application. 4a) Of the above claim(s) □ is/are withdrawn from consideration. 5i) □ Claim(s) 1-20 is/are rejected. 7i) □ Claim(s) is/are allowed. 6i) □ Claim(s) 1-20 is/are rejected. 7i) □ Claim(s) is/are objected to. 8i) □ Claim(s) is subjected to by the Examiner. 10 □ The drawing(s) filed on □ is/are: a) □ accepted or b) □ objected to by the Examiner. Application Papers 9 □ The specification is objected to by the Examiner. 10 □ The drawing(s) filed on □ is/are: a) □ accepted or b) □ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in absyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) sobjected to. See 37 CFR 1.121(d). 11) □ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12 □ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). 1. □ Certified copies of the p		ppears on the cover sheet with t	he correspondence address)					
1) Responsive to communication(s) filed on 10 April 1977 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-20 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) 1-20 is/are allowed. 6) Claim(s) 1-20 is/are rejected. 7) Claim(s) are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:	WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory perio - Failure to reply within the set or extended period for reply will, by statu. Any reply received by the Office later than three months after the mail	DATE OF THIS COMMUNICATION IN 1.136(a). In no event, however, may a reply d will apply and will expire SIX (6) MONTHS ate, cause the application to become ABANI	FION. be timely filed from the mailing date of this communionNED (35 U.S.C. § 133).						
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DETAILED ACTION

1. This office action is in response to application 10/814,398 and response filed on 4/10/2007. Claims 1-20 remain pending in the application.

Response to Amendment

1. Applicant's arguments have been considered but are moot in view of the new ground(s) of rejection as followed.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 3. Claims 1-8, 10-14 and 16-20 are rejected under 35 U.S.C. 102(e) as being anticipated by Biesterfeldt (7,019,551 B1).
- 4. As to claims 1 and 11, Biesterfeldt teaches substantially the same an output driver (Fig. 1, output buffer) comprising a pull-up circuit coupled to a signal terminator device (Fig. 1, a circuit coupled to an output pad), the pull-up circuit including pull-up compensation resistive element (resistor element of RC circuit, Fig. 1); and a pull-down circuit coupled to the signal termination (a circuit coupled to an output pad, Fig. 1), the pull-down circuit including a pull-down compensation resistive element (Fig. 1, resistor

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element of RC circuit, Fig. 1), where the pull-up and pull-down compensation resistive elements to provide analog compensation of output driver signal slew rate against device impedance variation, such that a slew rate of a driver output signal is within a predetermined slew rate range (Fig. 1, col. 5 lines 5-29). Note that the output driver as taught by Biesterfeldt can be used or integrated in a modern computer system that includes a peripheral device and a chipset.

- 5. As to claims 2 and 16, Fig. 1 shows a pull-up pre-driver to selectively generate pull-up signals to cause a rising signal transition at the driver output pad; and a pull-down pre-driver to selectively generate pull-down signals to cause a falling signal transition at the driver output pad, such that a slew rate of a driver output signal is within a predetermined slew rate range (Fig. 1, see detailed its description).
- 6. As to claims 3-4 and 12-13, Fig. 1 shows a plurality of pull-up devices, each pull-up device coupled between a driver supply voltage and the signal termination device and a plurality of pull-down devices, each pull-down device coupled between a driver group and the signal termination device (Fig. 1, see detailed its description).
- 7. As to claims 5-6, Fig. 1 shows the pull-up devices comprising a plurality of PMOS devices having a source coupled to the driver supply voltage, a drain coupled to the signal termination device and a gate to receive a pull-up signal to activate the PMOS device to generate a rising signal transmission at the driver output pad and a crowbar current using a falling signal transition at the driver output pad (at least see Fig. 1, see detailed its description). Note that the output driver as taught by Biesterfeldt provides the same functionality.

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8. As to claims 7-8 and 14, Fig. 1 shows the pull-up compensation resistive elements is coupled, in series, between a selected pull-up device and the signal terminal device; and the pull-up compensation resistive elements is coupled, in series, between a selected pull-down device and the signal termination device (Fig. 1, see detailed its description).

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- 9. As to claims 18-20, the output driver as taught by Biesterfeldt can be used in many applications and integrated in a modern computer system that includes a peripheral device and a chipset. The claimed limitations as recited are known art inherently in a modern computer system (communication system).
- 10. As to claims 10 and 17, the claimed limitations are described in col. 5 lines 5-29.

 Claim Rejections 35 USC § 103
- 11. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 12. Claims 9 and 15 are rejected under 35 U.S.C. 103(a) as being obvious over Biesterfeldt (7,019,551 B1) in view of applicant admitted prior art. Biesterfeldt does not teach specifically teach the pull-up compensation resistive element and pull-down compensation resistive element are Nwell resistive elements, but applicant admitted that an Nwell structure is simple to create and consumes a relatively small die area (0003). With these motivations, it would have been obvious to one of ordinary skill in

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the art at the time the invention was made to implement the resistive elements as taught by Biesterfeldt is Nwell resistive elements.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Vuthe Siek whose telephone number is (571) 272-1906.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jack Chiang can be reached on (571) 272-7483. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Nuthe Siek/

Primary Examiner, A.U. 2825